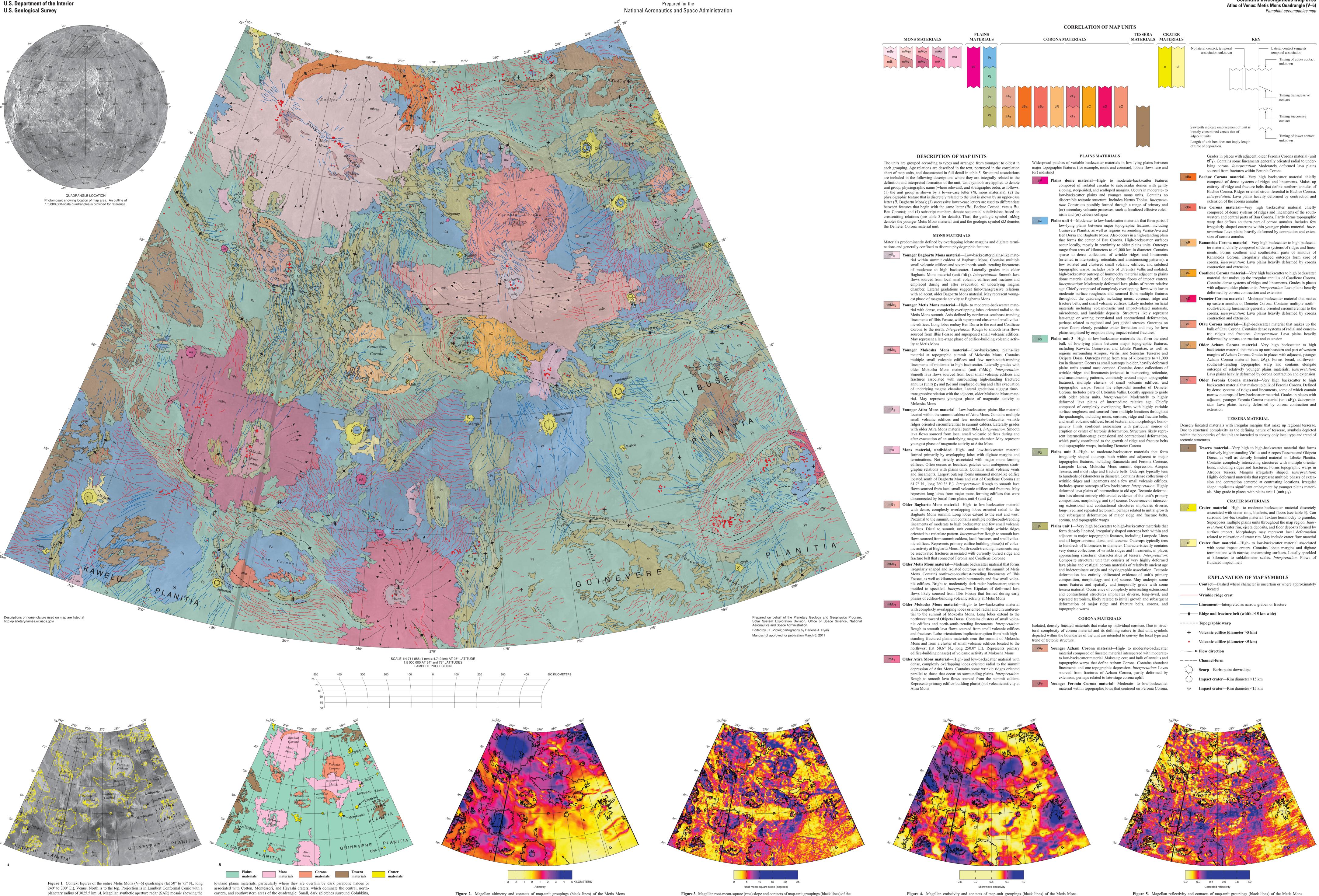
Scientific Investigations Map 3158 Atlas of Venus: Metis Mons Quadrangle (V–6)



Prepared for the

quadrangle (V-6), Venus. Large volcanic shields, tesserae, and some densely lineated areas make up

pronounced topographic highs, whereas ridge and fracture belts and corona annuli and cores make up

most moderate high areas. Lowland plains make up much of southeastern quadrant and southwestern

corner of map region. See table 4 for summary of unit elevation.

Metis Mons quadrangle (V-6), Venus. The rms slope relates to meter-scale roughness. Rougher materials

include coronae and tessera materials, as well as some mons materials. Most homogeneous and

moderately lineated plains have moderate to low rms slope. Note smooth halo and tail of low rms slope

extending west of Montessori crater. See table 4 for summary of unit rms slope.

quadrangle (V-6), Venus. In general, higher values represent rough surfaces and (or) low dielectric

content materials. High emissivity ranges occur in coronae and tesserae materials and low ranges are

largely confined to plains materials. There is not a clear association of emissivity with any of the mapped

craters. See table 4 for summary of unit emissivity.

quadrangle (V-6), Venus. Low reflectivity areas include some of the tesserae and coronae outcrops.

Plains areas and large volcanoes dominated by higher reflectivity.

relative intensity of 12.6-cm-wavelength radar backscatter. Mosaic is superposed with geologic

contacts in yellow, which have been grouped into material suites for maximum clarity.

Generally, tessera, densely lineated plains, craters, and some of the younger flow fields make up

the brightest surfaces (highest relative backscatter). Darkest surfaces are associated with

Indira, and Olya craters. Crater locations and characteristics are summarized in table 3. B, Unit

groupings, as delineated in the Correlation of Map Units, and major physiographic features

within the Metis Mons quadrangle (see map for all approved nomenclature located within V-6).

Large impact craters are denoted with black arrows.